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L5	4	L4 and (@rlad<="19980818" or @ad<="19980818")	USPAT	OR	OFF	2005/02/02 14:46
L6	12	L2 and 704/9.ccls.	USPAT	OR	OFF	2005/02/02 14:46
L7	4	L6 and (@rlad<="19980818" or @ad<="19980818")	USPAT	OR	OFF	2005/02/02 14:46
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1 **Optimal power control, scheduling, and routing in UWB networks**
Radunovic, B.; Le Boudec, J.-Y.;
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[Abstract] [PDF Full-Text (600 KB)] IEEE JNL

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Pang, G.K.H.; Takabashi, K.; Yokota, T.; Takenaga, H.;
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[Abstract] [PDF Full-Text (216 KB)] IEEE JNL

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[Abstract] [PDF Full-Text (800 KB)] IEEE JNL

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[Abstract] [PDF Full-Text (532 KB)] IEEE CNF

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Fang-Chang Lin;
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Castano, A.; Matthies, L.;
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Pages:320 - 323

[Abstract] [PDF Full-Text (44 KB)] IEEE CNF

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16 **Q-learning for adaptive load based routing**
Nowe, A.; Steenhaut, K.; Fakir, M.; Verbeeck, K.;
Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on , Volume: 4 , 11-14 Oct. 1998
Pages:3965 - 3970 vol.4

[Abstract] [PDF Full-Text (352 KB)] **IEEE CNF**

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17 **Efficient algorithms for delay-bounded minimum cost path problem in communication networks**
Kumar, G.; Narang, N.; Ravikumar, C.P.;
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18 **Iterated forecast and planning algorithm to steer and drive a mobile robot in the presence of multiple moving objects**
Tsubouchi, T.; Kuramochi, S.; Arimoto, S.;
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19 **Path planning for two cooperating robot manipulators**
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20 **Obstacle-free path planning for mobile robots**
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[Abstract] [PDF Full-Text (332 KB)] **IEE CNF**

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1 Measuring and characterizing end-to-end Internet service performance
Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, index terms

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

2 Link analysis: Link fusion: a unified link analysis framework for multi-type interrelated data objects
Wensi Xi, Benyu Zhang, Zheng Chen, Yizhou Lu, Shuicheng Yan, Wei-Ying Ma, Edward Allan Fox
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(510.05 KB) Additional Information: full citation, abstract, references, index terms

Web link analysis has proven to be a significant enhancement for quality based web search. Most existing links can be classified into two categories: intra-type links (e.g., web hyperlinks), which represent the relationship of data objects within a homogeneous data type (web pages), and inter-type links (e.g., user browsing log) which represent the relationship of data objects across different data types (users and web pages). Unfortunately, most link analysis research only considers one type of ...

Keywords: data fusion, information retrieval, link analysis algorithms, link fusion

3 Fast and flexible word searching on compressed text
Edleno Silva de Moura, Gonzalo Navarro, Nivio Ziviani, Ricardo Baeza-Yates
April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Full text available: pdf(165.20 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a fast compression technique for natural language texts. The novelties are that (1) decompression of arbitrary portions of the text can be done very efficiently, (2) exact

search for words and phrases can be done on the compressed text directly, using any known sequential pattern-matching algorithm, and (3) word-based approximate and extended search can also be done efficiently without any decoding. The compression scheme uses a semistatic word-based model and a Huffman code wher ...

Keywords: compressed pattern matching, natural language text compression, word searching, word-based Huffman coding

4 DB-IR-2 (databases and information retieval): web and XML text search: Providing consistent and exhaustive relevance assessments for XML retrieval evaluation

Benjamin Piwowarski, Mounia Lalmas

November 2004 **Proceedings of the Thirteenth ACM conference on Information and knowledge management**

Full text available: pdf(300.16 KB) Additional Information: full citation, abstract, references, index terms

Comparing retrieval approaches requires test collections, which consist of documents, queries and relevance assessments. Obtaining consistent and exhaustive relevance assessments is crucial for the appropriate comparison of retrieval approaches. Whereas the evaluation methodology for flat text retrieval approaches is well established, the evaluation of XML retrieval approaches is a research issue. This is because XML documents are composed of nested components that cannot be considered indepe ...

Keywords: INEX, XML, evaluation, relevance assessment process

5 Biclustering Algorithms for Biological Data Analysis: A Survey

Sara C. Madeira, Arlindo L. Oliveira

January 2004 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 1 Issue 1

Full text available: pdf(1.28 MB) Additional Information: full citation

Keywords: Biclustering, simultaneous clustering, coclustering, subspace clustering, bidimensional clustering, direct clustering, block clustering, two-way clustering, two-mode clustering, two-sided clustering, microarray data analysis, biological data analysis, gene expression data.

6 Experiments with a component theory of probabilistic information retrieval based on single terms as document components

K. L. Kwok

October 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 4

Full text available: pdf(1.84 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A component theory of information retrieval using single content terms as component for queries and documents was reviewed and experimented with. The theory has the advantages of being able to (1) bootstrap itself, that is, define initial term weights naturally based on the fact that items are self relevent; (2) make use of within-item term frequencies; (3) account for query-focused and document-focused indexing and retrieval strategies cooperatively; and (4) allow for component-specific fe ...

Keywords: document-focused and query-focused relevance feedback, indexing and retrieval, inverse collection term frequency weighting, inverse document frequency weighting, probabilistic indexing, probabilistic retrieval, ranking and weighting of composite objects

7 A statistically emergent approach for language processing: application to modeling context effects in ambiguous Chinese word boundary perception
Kok-Wee Gan, Kim-Teng Lua, Martha Palmer
December 1996 **Computational Linguistics**, Volume 22 Issue 4

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

This paper proposes that the process of language understanding can be modeled as a collective phenomenon that emerges from a myriad of microscopic and diverse activities. The process is analogous to the crystallization process in chemistry. The essential features of this model are: asynchronous parallelism; temperature-controlled randomness; and statistically emergent active symbols. A computer program that tests this model on the task of capturing the effect of context on the perception of ambi ...

8 Summarization and question answering: Using librarian techniques in automatic text summarization for information retrieval
Min-Yen Kan, Judith L. Klavans
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

A current application of automatic text summarization is to provide an overview of relevant documents coming from an information retrieval (IR) system. This paper examines how Centrifuser, one such summarization system, was designed with respect to methods used in the library community. We have reviewed these librarian expert techniques to assist information seekers and codified them into eight distinct strategies. We detail how we have operationalized six of these strategies in Centrifuser by c ...

Keywords: automatic text summarization, information retrieval user interfaces, reference librarian techniques

9 Structural computing: Unifying structure, behavior, and data with themis types and templates
William Van Lepthien, Kenneth M. Anderson
August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**

Full text available: pdf(332.32 KB) Additional Information: full citation, abstract, references, index terms

Structural computing evolved from work on open hypermedia to aid in the creation of software infrastructure. Open hypermedia had produced software that provided applications with access to hypermedia structures and services. The question was asked if these results could be generalized to create similar tools for other domains. Initial work focused on the development of structure servers that can create and manipulate domain-specific structures, but little work focused on allowing those structure ...

Keywords: Chimera, Themis, structural computing, templates, types

10 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

11 Routing and buffering: An efficient routing database
Narendra V. Shenoy, William Nicholls
June 2002 **Proceedings of the 39th conference on Design automation**

h c g e cf c

Full text available: pdf(206.49 KB) Additional Information: full citation, abstract, references, index terms

Routing is an important problem in the process of design creation. In this paper, we focus on the problem of designing a database for the non-partitioned routing problem. New technology libraries describe constraints that are hard to manage in grid-based approaches to the routing database. While general region query based data-structures have been proposed, they typically suffer from speed problems when applied to large blocks. We introduce an interval-based approach. It provides more flexibilit ...

Keywords: database, physical design, routing

12 Skeletal/medial axis representations: Any open bounded subset of R^n has the same homotopy type than its medial axis

André Lieutier

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications**

Full text available: pdf(419.63 KB) Additional Information: full citation, abstract, references, index terms

Medial Axis Transform is sometimes used as an intermediate representation in algorithms for meshing or recognition of shapes from digitized data. This raises the question whether the Medial Axis captures fundamental topological invariants of the object. The (positive) answer has been known already in the case of smooth objects. The main result presented here is *the homotopy equivalence of any bounded open subset of R^n with its Medial Axis*.

Keywords: homotopy, medial axis, skeleton, surface reconstruction

13 Common Lisp Object System specification

Daniel G. Bobrow, Linda G. DeMichiel, Richard P. Gabriel, Sonya E. Keene, Gregor Kiczales, David A. Moon

September 1988 **ACM SIGPLAN Notices**, Volume 23 Issue SI

Full text available: pdf(6.88 MB) Additional Information: full citation, citings

14 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

15 On completeness of historical relational query languages

James Clifford, Albert Croker, Alexander Tuzhilin

March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1

Full text available: pdf(3.55 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Numerous proposals for extending the relational data model to incorporate the temporal dimension of data have appeared in the past several years. These proposals have differed considerably in the way that the temporal dimension has been incorporated both into the structure of the extended relations of these temporal models and into the extended relational algebra or calculus that they define. Because of these differences, it has been diffic ...

Keywords: completeness, historical databases, query languages, relational model, temporal databases, temporal grouping, temporal logic

16 An object-based programming model for shared data

Gail E. Kaiser, Brent Hailpern

April 1992 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 14 Issue 2

Full text available: pdf(3.28 MB) Additional Information: full citation, abstract, references, index terms, review

The classical object model supports private data within objects and clean interfaces between objects, and by definition does not permit sharing of data among arbitrary objects. This is a problem for real-world applications, such as advanced financial services and integrated network management, where the same data logically belong to multiple objects and may be distributed over multiple nodes on the network. Rather than give up the advantages of encapsulated objects in modeling real-world en ...

Keywords: coordination language, daemons, financial applications, object-based, real-time, sharing

17 Concurrency control in advanced database applications

Naser S. Barghouti, Gail E. Kaiser

September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3

Full text available: pdf(4.69 MB) Additional Information: full citation, references, citings, index terms

Keywords: advanced database applications, concurrency control, cooperative transactions, design environments, extended transaction models, long transactions, object-oriented databases, relaxing serializability

18 Optimal structure identification with greedy search

David Maxwell Chickering

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(462.82 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we prove the so-called "Meek Conjecture". In particular, we show that if a DAG *H* is an independence map of another DAG *G*, then there exists a finite sequence of edge additions and covered edge reversals in *G* such that (1) after each edge modification *H* remains an independence map of *G* and (2) after all modifications *G* =*H*. As shown by Meek (1997), this result has an important consequence for Bayesian approaches to learning Bayesian ne ...

19 Programming languages for distributed computing systems

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(6.50 MB) Additional Information: full citation, abstract, references, citings, index terms, review

When distributed systems first appeared, they were programmed in traditional sequential languages, usually with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing new programming languages specifically for implementing distributed applications. These languages and their history, their underlying pr ...

20 Software error analysis: a real case study involving real faults and mutations

Murial Daran, Pascale Thévenod-Fosse

May 1996 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1996 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 21 Issue 3

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

The paper reports on a first experimental comparison of software errors generated by real faults and by 1st-order mutations. The experiments were conducted on a program developed by a student from the industrial specification of a critical software from the civil nuclear field. Emphasis was put on the analysis of errors produced upon activation of 12 real faults by focusing on the mechanisms of error creation, masking, and propagation up to failure occurrence, and on the comparison of these erro ...

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